

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=10; day=23; hr=9; min=43; sec=54; ms=895;]

=====

Application No: 10554308 Version No: 4.0

Input Set:

Output Set:

Started: 2008-09-19 18:22:15.615
Finished: 2008-09-19 18:22:18.550
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 935 ms
Total Warnings: 6
Total Errors: 0
No. of SeqIDs Defined: 13
Actual SeqID Count: 13

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)

SEQUENCE LISTING

<110> Takaiwa, Fumio
Takagi, Hidenori

<120> METHOD OF ACCUMULATING ALLERGEN-SPECIFIC T CELL ANTIGEN
DETERMINANT IN PLANT AND PLANT HAVING THE ANTIGEN DETERMINANT
ACCUMULATED THEREIN

<130> 201487/1160

<140> 10554308

<141> 2006-04-17

<150> JP 2003-120639

<151> 2003-04-24

<150> PCT/JP04/005938

<151> 2004-04-23

<160> 13

<170> PatentIn version 3.5

<210> 1

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1

Gly Ile Ile Ala Ala Tyr Gln Asn Pro Ala Ser Trp Lys Ser Met Lys
1 5 10 15

Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asp Ile Phe Ala Ser Lys
20 25 30

Asn Phe His Leu Gln Lys Asn Lys Leu Thr Ser Gly Lys Ile Ala Ser
35 40 45

Cys Leu Asn Tyr Gly Leu Val His Val Ala Asn Asn Asn Tyr Asp Pro
50 55 60

Ser Gly Lys Tyr Glu Gly Gly Asn Ile Tyr Thr Lys Lys Glu Ala Phe
65 70 75 80

Asn Val Glu Gln Phe Ala Lys Leu Thr Gly Phe Thr Leu Met Gly Arg
85 90 95

<210> 2

<211> 192
<212> PRT
<213> Homo sapiens

<400> 2

Gly Ile Ile Ala Ala Tyr Gln Asn Pro Ala Ser Trp Lys Ser Met Lys
1 5 10 15

Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asp Ile Phe Ala Ser Lys
20 25 30

Asn Phe His Leu Gln Lys Asn Lys Leu Thr Ser Gly Lys Ile Ala Ser
35 40 45

Cys Leu Asn Tyr Gly Leu Val His Val Ala Asn Asn Asn Tyr Asp Pro
50 55 60

Ser Gly Lys Tyr Glu Gly Gly Asn Ile Tyr Thr Lys Lys Glu Ala Phe
65 70 75 80

Asn Val Glu Gln Phe Ala Lys Leu Thr Gly Phe Thr Leu Met Gly Arg
85 90 95

Gly Ile Ile Ala Ala Tyr Gln Asn Pro Ala Ser Trp Lys Ser Met Lys
100 105 110

Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asp Ile Phe Ala Ser Lys
115 120 125

Asn Phe His Leu Gln Lys Asn Lys Leu Thr Ser Gly Lys Ile Ala Ser
130 135 140

Cys Leu Asn Tyr Gly Leu Val His Val Ala Asn Asn Asn Tyr Asp Pro
145 150 155 160

Ser Gly Lys Tyr Glu Gly Gly Asn Ile Tyr Thr Lys Lys Glu Ala Phe
165 170 175

Asn Val Glu Gln Phe Ala Lys Leu Thr Gly Phe Thr Leu Met Gly Arg
180 185 190

<210> 3
<211> 24
<212> PRT

<213> Oryza sativaL. cv Manngetsumochi

<400> 3

Met Ala Ser Ser Val Phe Ser Arg Phe Ser Ile Tyr Phe Cys Val Leu
1 5 10 15

Leu Leu Cys His Gly Ser Met Ala
20

<210> 4

<211> 24

<212> PRT

<213> Oryza sativaL. cv Manngetsumochi

<400> 4

Met Ala Ser Ile Asn Arg Pro Ile Val Phe Phe Thr Val Cys Leu Phe
1 5 10 15

Leu Leu Cys Asp Gly Ser Leu Ala
20

<210> 5

<211> 23

<212> PRT

<213> Oryza sativaL. cv Manngetsumochi

<400> 5

Met Ala Ser Lys Val Val Phe Phe Ala Ala Ala Leu Met Ala Ala Met
1 5 10 15

Val Ala Ile Ser Gly Ala Gln
20

<210> 6

<211> 3350

<212> DNA

<213> Artificial

<220>

<223> Artificially constructed DNA sequence

<400> 6

acagattctt gctaccaaca acttcacaaa gtagtagtca accaaaacta tgctaaggaa 60

tcacctcact tccgcccatg accgtgagca cgactgttca aacagtttgt taatctctac 120

aaagaaggta cactttacct acacaacgcc actaacctga gttaccacgc ccatgcaaaa 180

tagccacgtc ttgtgactta agggatttcg cgacaaggca tttcgaaagc ccacacaagg	240
acaccttatg aaaactggag gggteccaca gaccaacaac aagttaggtc ccaaaccatg	300
ttgtgccagg aaaaatccaa ggggtcctcc ccaacaccac cccgacaaat ccacttgtcc	360
attggcatca agatttgect gacctagcta attactcagc caggcatgtc acaattcacc	420
catgtggtca cacatgttat ggttggatga aattctaaag gaatcgggtc atatgagcaa	480
gaccgagaaa ccataccacc agtacttcta ccgaaatacg agtttagtaa actcatttgt	540
tttcaaggca cccgaccag gtgtgtcggg ttttccaggg attttgtaa cccaagtttt	600
acccatagtt gatcattcaa attttgagga gggtcattgg tatccgtacc tgagggcacg	660
aatactgaga cctagcattg tagtcgacca aggaggtaa tgcagcaatt gtaggtgggg	720
cctgttggtt atattgcaaa ctgcggccaa catttcatgt gtaatttaga gatgtgcatt	780
ttgagaaatg aaatacttag tttcaaatta tgggctcaa ataataaag gtgacctacc	840
ttgcttgata tcttgagctt ctctctcgta ttccgcgcac taggactctt ctggctccga	900
agctacacgt ggaacgagat aactcaacaa aacgaccaag gaaaagctcg tattagtgag	960
tactaagtgt gccactgaat agatctcgat ttttgaggaa ttttagaagt tgaacagagt	1020
caatcgaaca gacagttgaa gagatatgga ttttctaaga ttaattgatt ctctgtataa	1080
agaaaaaaag tattattgaa ttaaattgaa aaagaaaaag gaaaaagggg atggcttctg	1140
ctttttgggc tgaaggcggc gtgtggccag cgtgctgcgt gcggacagcg agcgaacaca	1200
cgacggagca gctacgacga acgggggacc gagtggaccg gacgaggatg tggcctagga	1260
cgagtgcaca aggctagtgg actcggctcc cgcgcggtat cccgagtggg ccactgtctg	1320
caaacacgat tcacatagag cgggcagacg cgggagccgt cctaggtgca ccggaagcaa	1380
atccgtcgcc tgggtggatt tgagtgcac ggcccacgtg tagcctcaca gctctccgtg	1440
gtcagatgtg taaaattatc ataatatgtg tttttcaaat agttaataa tatatatagg	1500
caagttatat gggtaataa gcagtaaaa ggcttatgac atggtaaaat tacttacacc	1560
aatatgcctt actgtctgat atattttaca tgacaacaaa gttacaagta cgtcatttaa	1620
aaatacaagt tacttatcaa ttgtagtgt tcaagtaaat gacaacaaac ctacaaattt	1680
gctattttga aggaacactt aaaaaaatca ataggcaagt tatatagtca ataaactgca	1740
agaaggctta tgacatggaa aaattacata caccaatatg ctttattgtc cggtatatat	1800
tacaagacaa caaagttata agtatgtcat ttaaaaatac aagttactta tcaattgtca	1860
agtaaatgaa aacaaaccta caaatgtgt attttgaagg aacacctaaa ttatcaaata	1920

tagcttgcta cgcaaaatga caacatgctt acaagttatt atcatcttaa agttagactc	1980
atcttctcaa gcataagagc tttatgggtgc aaaaacaaat ataatgacaa ggcaaagata	2040
catacatatt aagagtatgg acagacattt ctttaacaaa ctccatttgt attactccaa	2100
aagcaccaga agtttgtcat ggctgagtc tgaatgtat agttcaatct tgcaaagttg	2160
cctttccttt tgtactgtgt tttaacacta caagccatat attgtctgta cgtgcaacaa	2220
actatatcac catgtatccc aagatgcttt tttattgcta tataaactag cttggtctgt	2280
ctttgaactc acatcaatta gcttaagttt ccataagcaa gtacaaatag ctatggcgag	2340
ttccggtttc tctcggtttt ctatatactt ttgtgttctt ctattatgcc acggttctat	2400
ggcccagccc atgggcatca tcgcagctta ccaaaatcca gcaagctgga agagtatgaa	2460
ggttacagtt gcattcaacc aattcgggtcc tgatatcttt gctagcaaga atttcacct	2520
ccagaaaaat aagctcacia gtggcaagat tgcaagctgc ttgaactatg gattggttca	2580
tgtagctaac aataactatg atccaagcgg taagtatgag ggtggcaaca tctacactaa	2640
gaaggaagca ttcaacgtag agcaatttgc aaagctcaca ggcttcactc tcatgggacg	2700
caaggacgag ttgaagagct ctgtaattga gaactagtat cggcgtagag taaaataaaa	2760
caccacaagt atgacacttg gtggtgattc tgttcgatat cagtactaaa taaaggttac	2820
aaacttctta attttcttac ttcattgccat ggatattcca ttatggacta tagtggacag	2880
ggccggtcta tgattttgag ggccctagga actcatcgcg atgggcctca agctatatat	2940
aaaatttatt gatatatata gacgctaatt ttacttgcaa aatgaaaaca aatacatcta	3000
tatattaaat ttaacattcc tggtaattat caagaaataa aatcgaccaa aataacaata	3060
tatttgtaac ttggaactaa tataattatt tattaactta atgaagaata gaaccccgtc	3120
atatccattg cttcctatga aaagatactt cttcgggtat ttcttgatgc aaaatcataa	3180
agaacggtat taagatcaat agtgtccaag atatccttct cgattgagca catagccaag	3240
ccatttaacc ttatttgcca cagttgatct caaatagttt ttcaacaact tcaattttga	3300
taaacttatt tcagctgaag ctaccatcat aggtaaagtt aagagaattc	3350

<210> 7

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Putative amino acid sequence coded by artificially constructed

DNA sequence

<400> 7

Met Ala Ser Ser Gly Phe Ser Arg Phe Ser Ile Tyr Phe Cys Val Leu
1 5 10 15

Leu Leu Cys His Gly Ser Met Ala Gln Pro Met Gly Ile Ile Ala Ala
20 25 30

Tyr Gln Asn Pro Ala Ser Trp Lys Ser Met Lys Val Thr Val Ala Phe
35 40 45

Asn Gln Phe Gly Pro Asp Ile Phe Ala Ser Lys Asn Phe His Leu Gln
50 55 60

Lys Asn Lys Leu Thr Ser Gly Lys Ile Ala Ser Cys Leu Asn Tyr Gly
65 70 75 80

Leu Val His Val Ala Asn Asn Asn Tyr Asp Pro Ser Gly Lys Tyr Glu
85 90 95

Gly Gly Asn Ile Tyr Thr Lys Lys Glu Ala Phe Asn Val Glu Gln Phe
100 105 110

Ala Lys Leu Thr Gly Phe Thr Leu Met Gly Arg Lys Asp Glu Leu
115 120 125

<210> 8

<211> 1474

<212> DNA

<213> Oyrza sativa

<400> 8

tacagggttc cttgcgtgaa gaaggggtggc ctgcggttca ccattaacgg tcacgactac	60
ttccagctag tactggtgac caacgtcgcg gcggcaggggt caatcaagtc catggagggtt	120
atggggttcca acacagcgga ttggatgccg atggcacgta actggggcgc ccaatggcac	180
tcactggcct acctcaccgg tcaaggtcta tcctttagggt tcaccaaacac agatgaccaa	240
acgctcgtct tcaccaacgt cgtgccacca ggatggaagt ttggccagac atttgcaagc	300
aagctgcagt tcaagtgaga ggagaagcct gaattgatac cggagcgttt cttttgggag	360
taacatctct gggtgcctag caaacatatg attgtatata agtttcggtg tgcgtttatt	420
ctttcgggtgt gtaaaataac atacatgctt tcctgatatt ttcttgata tatgtacaca	480

cacacgacaa atccttccat ttctattatt attgaacaat ttaattgcga gggcgagtac	540
ttgtctgttt accttttttt tttcagatgg cattttatag tttaaccttt catggaccgg	600
cagtagttct aacctgaat gaaaagaaat catagtccac accacgcagg gacattgtgg	660
tcattttaga caagacgatt tgattaatgt cttgtatgat atggtcgaca gtgaggacta	720
acaaacatat ggcatatttt attaccggcg agttaataaa atttatgtca cagtaataaa	780
ctgcctaata aatgcacgcc agaaaatata atgataaaaa aaagaaaaga tacataagtc	840
cattgcttct acttttttaa aaattaaatc caacattttc tatttttttg tataaacttg	900
gaagtactag ttggatatgc aaaatcatct aacctccata tatttcatca atttgtttac	960
tttacatatg ggagaggata gtatgtcaaa gaaatgaca acaagcttac aagtttctta	1020
ttttaaaagt tccgctaact tatcaagcat agtgtgccac gcaaaactga caacaaacca	1080
acaaatttaa ggagcgcta acttatcatc tatgacatac cgcacaaaat gataacatac	1140
tagagaaact ttattgcaca aaaggaaatt tatccataag gcaaaggaaac atcttaaggc	1200
tttgatata catttaccaa caagcattgt ttgtattacc cctaaagcgc aagacatgtc	1260
atccatgagt catagtgtgt atatctcaac attgcaaagc tacctttttt ctattatact	1320
tttcgcatta taggctagat attatctata catgtcaaca aactctatcc ctacgtcata	1380
tctgaagatt cttttcttca ctatataagt tggttccct gtcattgaac tcacatcaac	1440
cagcccaagt ttccaataac atcctcaaat agct	1474

<210> 9
 <211> 824
 <212> DNA
 <213> *Oryza sativa*

<400> 9	
actggataat tataatatca gttaaaattg aaaataatgc aacttcatac ttgcatggtg	60
tcagtagtgc ctgcctaaga aatgtgtctt gtcataatat gattacatga aatatgttta	120
cttcctcggt tctctttatt tgtaagataa agaactagat atgtggaaag taggatagca	180
aagagtatgg ccaaactcta atctttgctt tatttttttg gatggacca aaatttgttt	240
ctcctttact tctttccctt tacaacaatg ttctttactt ccaattctta ttaacaaaac	300
tccaaatata tgccaaactg catatgtatg tatgctatta aggcacattt acaaagctcc	360
aagtttacct actcaatcat tcacatatgg cgatgactca aactcttaat tgttatctgg	420
taagctgtga cttgtgtaac acattctaca agtcccatac gaattctggt cacaaaagtt	480

tctttgtcca gtcataaatt tacaaaactg caaaatgcc aagcaatctg gcacaacctt	540
atcatcatat tttctttcca cgcattaaag cactggcaga attatctttg tgtagatatt	600
ccaaaagtat tgggtgaata aatgtccaaa taaattccat gcctcatgat ttccagctta	660
tgtggcctcc actaggtggt tttgcaaagg ccaaactctt tcctggctta cacagctacc	720
agcatgtata aataggcccc taggcaacca ttattccatc atcctcaaca atattgtcta	780
caccatctgg aatcttgttt aacactagta ttgtagaatc agca	824

<210> 10
 <211> 931
 <212> DNA
 <213> *Oryza sativa*

<400> 10	
gatcttttaa ccggtgtacg ctgggttaat tagcgatggt gcaggtcacg taccctaaatt	60
tcttcactgt tggatcaact agagtagtta aacgagggca tgtgatgaag gctagctatt	120
tgaaattttc caattatccc tgcataagtc aggtacaat agcacctgga ctacatgcag	180
ggattacaaa ataggtggta accacattta ccgcgttaac cctatcaaat tcaaataaat	240
tttaaaagta atttgatttt tttaataaat tttgtatggt ttctcaagct ttattttggt	300
taccgtgctt actgcggagg caatgggaaa ccctcactag aagttgcacc tgttcttgtc	360
tgtgcaccat atcatgttga atcatgtgcg ttgtgtcttt cggaagaacc gatttactac	420
atgactcatc aattccactt tacgtatcaa aaggtttggt atgggggcaa tgcttttggtg	480
aaattaaatt tttattttgc gtcacgttgt atctagttaa acactaccta cctaccatta	540
caaacctca ttccacaaaa cgatgcatct agataaaaaa tatgacatgt aaagtgagta	600
atgactcatg tttattatca aaaatcgata acaatcaaat gatataggta gtaaagtacc	660
tttgaaatgg catgtccaag tatgtgtagc tccacctagc acaatatccc aagtgatcat	720
cataaaaggc atacaaatac aagcagccga tgatgcacac aagaaacaac acaaattgca	780
caaaaccaaa agcaaccgat gccttgagca tagagatcat gctattccca ctataaatac	840
aaatgcacca tatcaagatg ctctcacc ttactgaaaa atcacaaaca tcaaacggtt	900
ataagagttc tctagcatcc atcacatagc c	931

<210> 11
 <211> 4
 <212> PRT
 <213> *Homo sapiens*

<400> 11

Lys Asp Glu Leu
1

<210> 12

<211> 6

<212> PRT

<213> Homo sapiens

<400> 12

Ser Glu Lys Asp Glu Leu
1 5

<210> 13

<211> 4

<212> PRT

<213> Saccharomyces cerevisiae

<400> 13

His Asp Glu Leu
1